

AMENDMENTS TO THE CLAIMS

Please replace the pending claims with the following claim listing:

1. (Canceled)
2. (Previously Presented) An optical medium comprising a cubic crystal material, ~~said crystal material comprises~~ comprising KTaO_{3-d} , where the amount of oxygen deficiency d is $0 \leq d < 10^{-7}$.
- 3-5. (Canceled)
6. (Currently Amended) An optical lens comprising:
a cubic crystal material comprising $\alpha\beta\text{O}_3$, ~~where α is at least one of K, Ba, Sr, Ca, and β is at least one of Ta, Ti~~ KTaO_{3-d} , where the amount of oxygen deficiency d is $0 \leq d < 10^{-7}$;
and
a refractive index of more than 2.2 in the wavelength range of 360nm – 800nm, and a transmission of 80% or more with a 10mm thickness.
- 7-10. (Canceled)
11. (Currently Amended) An optical prism comprising:
a cubic crystal material comprising $\alpha\beta\text{O}_3$, ~~where α is at least one of K, Ba, Sr, Ca, and β is at least one of Ta, Ti~~ KTaO_{3-d} , where the amount of oxygen deficiency d is $0 \leq d < 10^{-7}$;
and
a refractive index of more than 2.2 in the wavelength range of 360nm – 800nm, and a transmission deterioration of 1% or less under a 10-minute irradiation with an irradiation intensity of 2.2 W/cm^2 .
- 12-15. (Canceled)